

**VESSEL SEALING SYSTEM****ABSTRACT OF THE DISCLOSURE**

- 5 A method for electrosurgically sealing a tissue includes steps of: (A) applying a first pulse of RF energy to the tissue; and (B) applying at least one subsequent RF energy pulse to the tissue and keeping constant or varying RF energy parameters of individual pulses of subsequent RF energy pulses in accordance with at least one characteristic of an electrical transient that occurs during the individual RF energy pulses. The method terminates the generation of the at least one  
10 subsequent RF pulse upon a determination that the electrical transient is absent.